

IN THE CLAIMS:

Please amend the claims as follows:

1. **(Previously Presented)** A hydrogen supply unit comprising:

reformation means for reforming a source gas containing hydrocarbons to generate a hydrogen-rich reformed gas;

a fuel cell in direct communication with a downstream outlet of the reformation means and consuming the reformed gas for generating electric power; and

purification means for purifying hydrogen in an exhaust gas discharged from said fuel cell.

2. **(Previously Presented)** The hydrogen supply unit according to claim 1, wherein said purification means purifies the hydrogen, which is passed through a hydrogen permeable membrane and a hydrogen purifying adsorbent for purifying the hydrogen.

3. **(Previously Presented)** The hydrogen supply unit according to claim 1, wherein said purification means comprises:

a membrane separator for conducting membrane separation based on a hydrogen permeable membrane;

a pressurizer for pressurizing the exhaust gas purified by said membrane separator; and

an adsorber for purifying the exhaust gas pressurized by said pressurizer.

4. **(Previously Presented)** The hydrogen supply unit according to claim 1, wherein said purification means comprises:

a membrane separator for conducting membrane separation based on a hydrogen permeable membrane provided with a function for pressurizing hydrogen; and
an adsorber for purifying the exhaust gas pressurized by said membrane separator.

5. **(Previously Presented)** The hydrogen supply unit according to claim 3, wherein the membrane separator for conducting the membrane separation comprises electrodes on front and back surfaces of said hydrogen permeable membrane, and conducts the purification of the hydrogen by providing an electrical potential difference between the front and back surfaces of said hydrogen permeable membrane to make hydrogen ions permeate said hydrogen permeable membrane.

6. **(Previously Presented)** The hydrogen supply unit according to claim 3, wherein the adsorber includes a plurality of containers charged with an adsorbent, and purifies the hydrogen by passing the exhaust gas containing the hydrogen through the plurality of containers while varying the pressure of the exhaust gas.

7. **(Previously Presented)** The hydrogen supply unit according to claim 3, further comprising:

a first passage directing an offgas separated by said hydrogen permeable membrane to said reformation means, and

a second passage directing an offgas separated by said pressurizer to said fuel cell,

wherein said reformation means reforms said source gas, and consumes the offgas directed to the reformation means by the first passage in addition to said source gas; and

wherein said fuel cell generates electric power by using the offgas directed to the fuel cell by the second passage.

8. **(Previously Presented)** The hydrogen supply unit according to claim 3 or 4, further comprising:

a first passage directing an offgas separated by said membrane separator to said reformation means, and

a second passage directing an offgas separated by said adsorber to said fuel cell,

wherein said reformation means reforms said source gas, and consumes the offgas directed to said reformation means by the first passage, in addition to said source gas; and

wherein said fuel cell generates electric power using the offgas directed to the fuel cell by the second passage.

9. **(Previously Presented)** The hydrogen supply unit according to Claim 8, comprising storage means for storing the hydrogen purified by said purification means.

10. **(Previously Presented)** The hydrogen supply unit according to claim 9, wherein said storage means comprises:

a pressurization means in storage for pressurizing the hydrogen gas to be stored, and

connection means for being connected to a vehicle that consumes hydrogen as fuel.

11. **(Previously Presented)** The hydrogen supply unit according to claim 3, comprising:

storage means for storing the hydrogen purified by said purification means, wherein said storage means comprises:

a first tank for storing the gas supplied from said adsorber;

a pressurizer in storage for pressurizing the gas supplied from said first tank;

a second tank for storing the gas supplied from said pressurizer in storage; and

a connector for connecting said second tank to a vehicle that consumes hydrogen as fuel.

12. **(Previously Presented)** The hydrogen supply unit according to claim 4, wherein the membrane separator for conducting the membrane separation comprises electrodes on front and back surfaces of said hydrogen permeable membrane, and conducts the purification of the hydrogen by providing an electrical potential difference between the front and back surfaces of said hydrogen permeable membrane to make hydrogen ions permeate said hydrogen permeable membrane.

13. **(Previously Presented)** The hydrogen supply unit according to claim 4, wherein the adsorber includes a plurality of containers charged with an adsorbent, and purifies the hydrogen by passing the exhaust gas containing the hydrogen through the plurality of containers while varying the pressure of the exhaust gas.

14. **(Previously Presented)** The hydrogen supply unit according to claim 4, comprising:

storage means for storing the hydrogen purified by said purification means, wherein said storage means comprises:

a first tank for storing the gas supplied from said adsorber;

a pressurizer in storage for pressurizing the gas supplied from said first tank;

a second tank for storing the gas supplied from said pressurizer in storage; and

a connector for connecting said second tank to a vehicle that consumes hydrogen as fuel.

15. **(New)** A hydrogen supply unit comprising:

a membrane separator for separating hydrogen having moisture therein, by pressurizing a hydrogen-rich reformed gas for pressurizing the hydrogen; and

an adsorber for purifying the hydrogen by removing the moisture from the pressurized hydrogen by using a pressure swing adsorption method.

16. **(New)** The hydrogen supply unit according to claim 15, wherein the membrane separator comprises electrodes on front and back surfaces of a hydrogen permeable membrane, and wherein the membrane separator conducts the separation and the pressurization of the hydrogen by providing an electrical potential difference between the front and back surfaces of the hydrogen permeable membrane to facilitate hydrogen ions permeating the hydrogen permeable membrane.

17. **(New)** The hydrogen supply unit according to claim 15, wherein the adsorber includes a plurality of containers charged with an adsorbent, and purifies the hydrogen by passing an exhaust gas containing the hydrogen through the plurality of containers while varying a pressure of the exhaust gas.

18. **(New)** The hydrogen supply unit according to claim 16, wherein the adsorber includes a plurality of containers charged with an adsorbent, and purifies the hydrogen by passing an exhaust gas containing the hydrogen through the plurality of containers while varying a pressure of the exhaust gas.

19. **(New)** The hydrogen supply unit according to claim 15, further comprising:
reformation means for reforming a source gas containing hydrocarbons to generate the hydrogen-rich reformed gas, wherein the reformation means reforms the source gas by heating with the aid of heating means that uses the source gas as fuel, and consumes an offgas separated by the membrane separator, in addition to the source gas, as the fuel for the heating means when reforming the source gas; and

a fuel cell provided between the reformation means and the membrane separator, for generating electric power by using the offgas, separated by the adsorber, in addition to the reformed gas.

20. **(New)** The hydrogen supply unit according to claim 16, further comprising:
reformation means for reforming a source gas containing hydrocarbons to generate the hydrogen-rich reformed gas, wherein the reformation means reforms the source gas by heating with the aid of heating means that uses the source gas as fuel, and consumes an offgas separated by the membrane separator, in addition to the source gas, as the fuel for the heating means when reforming the source gas; and

a fuel cell provided between the reformation means and the membrane separator, for generating electric power by using the offgas, separated by the adsorber, in addition to the reformed gas.

21. (New) The hydrogen supply unit according to claim 15, further comprising storage means for storing the hydrogen purified by the adsorber.

22. (New) The hydrogen supply unit according to claim 16, further comprising storage means for storing the hydrogen purified by the adsorber.

23. (New) The hydrogen supply unit according to claim 21, wherein the storage means comprises:

a pressurization means in storage for pressurizing the hydrogen gas to be stored, and

connection means for being connected to a vehicle that consumes the hydrogen as fuel.

24. (New) The hydrogen supply unit according to claim 22, wherein the storage means comprises:

a pressurization means in storage for pressurizing the hydrogen gas to be stored, and

connection means for being connected to a vehicle that consumes the hydrogen as fuel.

25. (New) The hydrogen supply unit according to claim 15, further comprising: storage means for storing the hydrogen purified by the adsorber, wherein the storage means comprises:

a first tank for storing the gas supplied from the adsorber;

a pressurizer in storage for pressurizing the gas supplied from the first tank;
a second tank for storing the gas supplied from the pressurizer in storage; and
a connector for connecting the second tank to a vehicle that consumes the hydrogen as fuel.

26. **(New)** The hydrogen supply unit according to claim 16, further comprising:
storage means for storing the hydrogen purified by the adsorber, wherein the storage means comprises:

a first tank for storing the gas supplied from the adsorber;
a pressurizer in storage for pressurizing the gas supplied from the first tank;
a second tank for storing the gas supplied from the pressurizer in storage; and
a connector for connecting the second tank to a vehicle that consumes the hydrogen as fuel.